

Application of: Robert A. Veschi
Serial No.: 09/777,350
Filed: February 5, 2001

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1-20. (Canceled)

21. (Currently Amended) A circuit for notifying a user of an Internet telephony device of an incoming telephone call based on the presence of a plurality of certain frequencies indicative of a multi-frequency ring signal in an audio signal, the circuit comprising:

one or more a plurality of frequency filters, one for each of said plurality of certain frequencies, and each filter constructed and adapted to detect a different one of said plurality of certain frequencies for detecting one or more frequencies corresponding to an incoming call signal in an audio input signal in an Internet telephony device, and

one or more a plurality of switches, one for each of said plurality of frequency filters, each connected to a different one of said plurality of frequency filters, for selectively routing said audio input signal to a speaker remote from a headset if said one or more when each of said plurality of certain frequencies corresponding to an incoming call signal are detected by said plurality of frequency filters, and otherwise routing said audio input signal to said headset if said one or more frequencies corresponding to an incoming call signal are not detected.

22. (Currently Amended) The circuit of claim 21, wherein said one or more plurality of frequency filters are comprise bandpass band pass filters.

23. (Currently Amended) The circuit of claim 21, further comprising

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one or more a plurality of capacitors, one for each of said plurality of frequency filters, for filtering noise in said audio input signal to prevent false detects of incoming telephone calls.

24. (Currently Amended): A method of notifying a user of an Internet telephony device of an incoming telephone call, wherein the presence of said incoming call is indicated by a multi-frequency telephone ring signal comprising at least two distinct simultaneous frequencies, the method comprising:

obtaining an audio input signal in the Internet telephony device;

detecting an incoming call by detecting the presence of at least two distinct simultaneous frequencies characteristic of said ring signal in said one or more frequencies corresponding to a telephone ring signal in an audio input signal in an Internet telephony device, and

notifying said user of said incoming call by selectively routing said audio input signal to a speaker remote from a headset if said one or more when said distinct simultaneous frequencies corresponding to a telephone ring signal are detected, and otherwise

routing said audio input signal to said headset if said one or more frequencies corresponding to a telephone ring signal are not detected.

25. (Currently Amended) A method, comprising:

detecting, in an audio signal in an Internet telephony device, a multi-frequency ring signal, said multi-frequency ring signal being indicative of corresponding to an incoming call in an audio input signal in an Internet telephony device;

sending an output signal to a speaker remote from a headset if when said multi-frequency ring signal corresponding to an incoming call is detected, and otherwise

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sending said audio input signal to said headset if said signal corresponding to an incoming call is not detected.

26 (Currently Amended): The method of claim 25, wherein said multi-frequency ring signal comprises 520 Hz and 3250 Hz signals corresponding to an incoming call is a frequency.

27 (Canceled).

28 (Currently amended) The method of claim 25, wherein said signal corresponding to an incoming call is comprises a packet.

29 (Currently amended): The method of claim 25, wherein said output signal is comprises a tone signal.

30 (Currently amended): The method of claim 25, wherein said output signal is comprises an announcement.

31 (Currently Amended) An Internet telephony device, comprising:
an input device for receiving constructed and adapted to receive an audio input signal, and
circuitry constructed and adapted to analyze a central processing unit with logic for analyzing said audio input signal,

wherein said logic circuitry detects in said audio input signal a multi-frequency signal corresponding to indicative of an incoming call in said audio input signal, and sends an output signal to a speaker remote from a headset if when said multi-frequency

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signal corresponding to an incoming call is detected, and otherwise sends said audio input signal to said headset if said signal corresponding to an incoming call is not detected.

32. (New) A circuit as in claim 21 wherein said plurality of switches are connected in series.

33. (New) A method as in claim 24 wherein the multi-frequency ring signal comprises 520 Hz and 3250 Hz signals.

34. (New) A method as in claim 24 wherein said step of notifying comprises making an announcement.

35. (New) A method as in claim 24 wherein said step of detecting comprises:
detecting the presence of at least two distinct simultaneous frequencies for a duration indicative of said ring signal.

36. (New) A device as in claim 31, wherein said circuitry comprises:
a plurality of frequency filters, each corresponding to a different frequency indicative of said multi-frequency signal, and each filter constructed and adapted to detect a different frequency indicative of said multi-frequency signal,
a plurality of capacitors, one corresponding to each of said plurality of frequency filters, each connected to a different one of said plurality of frequency filters, for filtering out signals having certain durations;
a plurality of switches connected in series, one corresponding to each of said plurality of frequency filters, each connected to a different one of said plurality of capacitors, for selectively causing said audio signal to be routed to a speaker remote from

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a headset when said frequency indicative of said multi-frequency signal are detected for a sufficient period of time by said plurality of frequency filters in conjunctions with said plurality of capacitors, and otherwise causing said audio signal to be routed to said headset.